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Interested committees:

Title: Draft BS ISO 6362-6 Wrought aluminium and aluminium alloys - Extruded rods/bars, tubes and profiles. Part 6: Tolerances on form and dimensions for round, square, rectangular and hexagonal tubes.

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Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

For national standards, comments will be reviewed by the relevant UK national committee and the resulting standards published as a British Standard.

UK Vote

Please indicate whether you consider the UK should submit a negative (with supporting technical reasons) or positive vote on this draft. Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.

Submission of Comments

- **Annotated drafts are not acceptable and will be rejected.**
- All comments should be submitted online at <https://standardsdevelopment.bsigroup.com/>. You will need to register in order to comment.

Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/ Figure/Table/Note	Type of comment	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	



DRAFT International Standard

ISO/DIS 6362-6

Wrought aluminium and aluminium alloys — Extruded rods/bars, tubes and profiles —

Part 6: Tolerances on form and dimensions for round, square, rectangular and hexagonal tubes

ICS: 23.040.15; 77.150.10

ISO/TC 79/SC 6

Secretariat: **AFNOR**

Voting begins on:
2024-02-07

Voting terminates on:
2024-05-01

This document is circulated as received from the committee secretariat.

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Contents

Page

Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Materials	1
5 Tolerances on dimensions	2
5.1 General	2
5.2 Tolerances on diameter for round tube	3
5.3 Tolerances on width, depth or width across flats – squares, rectangles, hexagons	4
5.3.1 Seamless tube	4
5.3.2 Porthole tube	5
5.4 Tolerances on wall thickness for round tube	6
5.5 Tolerances on wall thickness for tubes that are other than round tube	7
5.5.1 Seamless tube	7
5.5.2 Porthole tube	8
5.6 Tolerances on wall thickness variation (eccentricity) - Round tube	8
5.6.1 Seamless tube	8
5.6.2 Porthole tube	9
5.7 Tolerances on length of straight tube	9
5.8 Squareness of cut ends	10
6 Tolerances on form	10
6.1 General	10
6.2 Straightness	10
6.2.1 Round tube	10
6.2.2 Tubes that are other than round	10
6.3 Convexity/concavity - Square and rectangular tube	11
6.4 Twist - Square and rectangular tube	12
6.5 Angularity – Square and rectangular tube	13
6.6 Corner and fillet radii - Square and rectangular tube	14
6.7 Depth of dents for round tube	14
Annex A (informative) Wall thickness variation (eccentricity)	15
Bibliography	17

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 79, *Light metals and their alloys*, Subcommittee SC 6, *Wrought aluminium and aluminium alloys*.

This second edition cancels and replaces the first edition (ISO 6362-6:2012), which has been technically revised.

The main changes compared with the previous edition are as follows:

- Correction of error and modification on expression throughout this document.

A list of all parts in the ISO 6362 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Wrought aluminium and aluminium alloys — Extruded rods/bars, tubes and profiles —

Part 6: Tolerances on form and dimensions for round, square, rectangular and hexagonal tubes

1 Scope

This document specifies the tolerances on form and dimensions of the following:

- wrought aluminium and aluminium alloy extruded round tubes, having diameters from 13 mm up to 450 mm.
- wrought aluminium and aluminium alloy extruded square, rectangular and hexagonal tubes, having circumscribing circle up to 350 mm.

It is applicable to extruded round, square, rectangular and hexagonal tubes.

NOTE Four-digit numerical designations are completely identical with *Registration of International Alloy Designations and Chemical Composition Limits for Wrought Aluminum and Wrought Aluminum Alloys* (known as "Teal sheets")^[1].

2 Normative references

The following documents are referred to in text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 6362-1, *Wrought aluminium and aluminium alloys — Extruded rods/bars, tubes and profiles — Part 1: Technical conditions for inspection and delivery*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 6362-1 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

4 Materials

For the purposes of this document, wrought aluminium and aluminium alloys are divided into two groups, which correspond to varying difficulty when manufacturing the products.

The division into Group I and Group II of the most commonly used general engineering alloys is specified in [Table 1](#) (for seamless tube) and [Table 2](#) (for porthole tube). Grouping of other alloys is subject to agreement between the purchaser and the supplier.